

L 38583-65 EMT(m)/EPF(c)/EMP(j)/EMA(c) Pc-L/Pr-L RFL JW/RM ACCESSION NR: AP5011035 UR/0079/64/034/011/3850/3850

AUTHOR: Nifant'yev, E. Ye.

TITLE: Synthesis of new types of nitrogen-containing derivatives of phosphorous acid

SOURCE: Zhurnal obshchey khimil, v. 34, no. 11, 1964, 3850

TOPIC TACK!: organic nitrogen compound, phosphorous acid, organic amide, organic synthetic process

Abstract: In view of the low reactivity of smide derivatives of phosphorous acid as intermediates in the production of sugar phosphites, sugar phosphates, and other phosphorus containing esters of carbohydrates, the author synthesized new types of nucleophilic nitrogen-containing phosphorous acid derivatives. N-methoxyamide of 1,3-butylenephosphorous acid was synthesized by the reaction of 1,3-butylene chlorophosphite (1) with 0-methylhydroxylamine; the reaction of (1) and N.N.-diethylhydroxylamine produced the 0-phosphorylation product of the latter. The chlorophosphite of (1) readily phosphorylates 3,5-dimethyl-pyrazole and 4-ethyl-5-methyl-delta2-pyrazoline, producing phosphorylated heterocycles. A hydrazide was synthesized from (1) and nonsymmetrical

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methylhydrazine. All the comp	ounds obtained are the	first represente	itives
a are effective phosphorylatin	g agents, especially (the hydreside.	
SOCIATION: Hoskovskiy gosudar: oscov State University)	stvennyy aniversitet i	meni M. V. Lomono	SOVA
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FOTEOV, K.A.; RIFARTYEV, E. Ye.; SHOUBOOLEV, A.T.; TUDEYET, A.T.

Synthesis and chemical properties of tetracthyldiania grouphite carbohydrates. Zhur. cb. Rhim. 34 r .1/24096-4099 [1.1.]

18:11)

ACCESSION NR: AP4018072 S/0080/64/037/002/0429/0433

AUTHORS: Petrov, K.A.; Nifant'yev, E.Ye.; Ly*senko, T.N.; Sinogeykina,

L.P.

TITLE: Synthesis of certain derivatives of phenylphosphonic acid

SOURCE: Zhurnal prikladnoy khimii, v. 37, no. 2, 1964, 429-433

TOPIC TAGS: phenylphosphonate, synthesis, phosgenation, phenyl-

phosphonic acid ester

ABSTRACT: The synthesis of phenylphosphonates by the following

procedure:

 $C_{6}H_{6} \xrightarrow{PCl_{3}} C_{6}H_{5}PCl_{2} \cdot AlCl_{3} \xrightarrow{SO_{1}Cl_{1}} C_{6}H_{5}POCl_{2} \cdot AlCl_{3} \xrightarrow{ROH}$

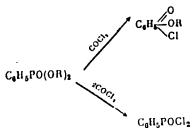
 $\longrightarrow C_6 II_6 PO(OR)_2 \cdot AICI_3 \xrightarrow{H_1O} C_6 II_6 PO(OR)_2$

and the subsequent phosgenation:

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[1] 251 图[1] 对用品类的建筑和多数的基础的基础的建筑的建筑的建筑的建筑。在10分钟的发现,这种是一个一个一个一个一个一个一个一个一个一个一个一个一个

ACCESSION NR: AP4018072



were investigated. The dibuty, dihexyl, di-2-ethylhexyl and diphenyl esters of phenylphosphonic acid were prepared according to the first equation by reacting a mixture of phenyldichlorophosphine and AlClz with SO₂Cl₂, removing the excess SO₂Cl₂, and then reacting with the appropriate alcohol. The monobutyl, hexyl and octyl esters were prepared by reacting in absolute ether the dichloranhydride of phenylphosphonic acid (i) with the appropriate alcohol and pyridine. The butyl and isoamyl esters of diethylamidophenylphosphonic acid were prepared by reacting in absolute ether a misture of I, the appropriate alcohol and triethylamine, and then diethylamine. Phosgenation of the diethyl ester of phenylphosphonic acid at 40-50C gives the monochloranhydride of the monoethyl ester of phenylphosphonic acid; at 120-130C, I is formed almost quantitatively. Phosgenation

card 2/3

ACCESSION NR: AP4018072

at the lower temperature of the monohexyl ester gives the monochloranhydride of the monohexyl ester of phenylphosphonic acid. Orig.

art. has: 1 table and 3 equations.

ASSOCIATION: None

SUBMITTED: 23Jun62

DATE ACQ: 19Mar64

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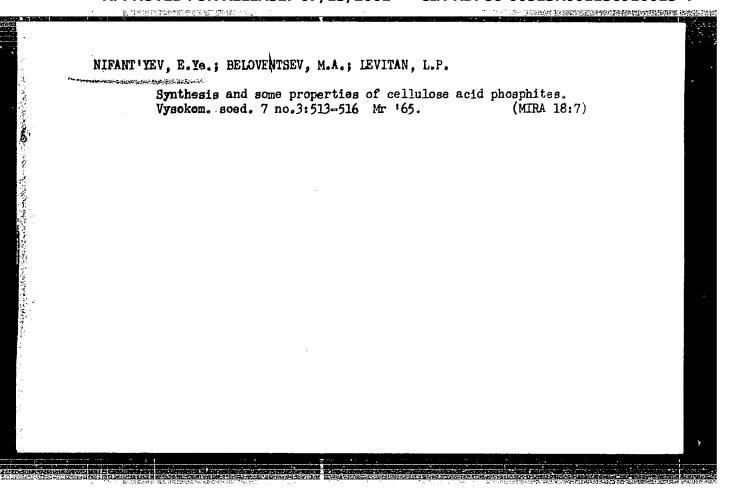
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Card

3/3

PETROV, K.A.; NIFANT'YEV, E.Ye.; SOPIKOVA, I.I.; LEVITAN, L.P.

Synthesis and some properties of dialkylcyclohexyl phosphates.
Zhur.prikl.khim. 37 no. 5;1132-1135 My '64. (MIRA 17;7)



PREDVODITELEV, D.A.; N.FANT'YEV, E.Ye.; ROGWHE, Z.A.

Synthesis of rellulose hypophosphites. Vysckom. soed. " no.5:791-794
My 165.

1. Moskovskiy tekstil'nyy institut.

FREDVODITELEV, D.A.; NIFANT'YEV, E.Ye.; ROGOVIN, Z.A.

Synthesis of cellulose phosphites by the reaction of monomethyl phosphite with cellulose and their subsequent transformations. Vysokom. seed. 7 no.6:1005-1009 Je '65. (MIRA 18:9)

l. Moskovskiy tekstil'nyy institut.

I_57871-65 ENT(m)/EPF(c)/EPR/ENP(J)/J EG-4/Pr-4/Ps-4 NN/RN ACCESSION NR: AP5016504 UR/0190/65/007/006/1020/1023 541.64 + 678.675 4/4

AUTHOR: Nifant'yev, E. Ye.; Markov, S. M.; Tuseyev, A. P.

TITLE: Synthesis of polyphosphamides containing 2,2'-diaminodiethyl disulfide (cystamine) residues

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 6, 1965, 1020-1023

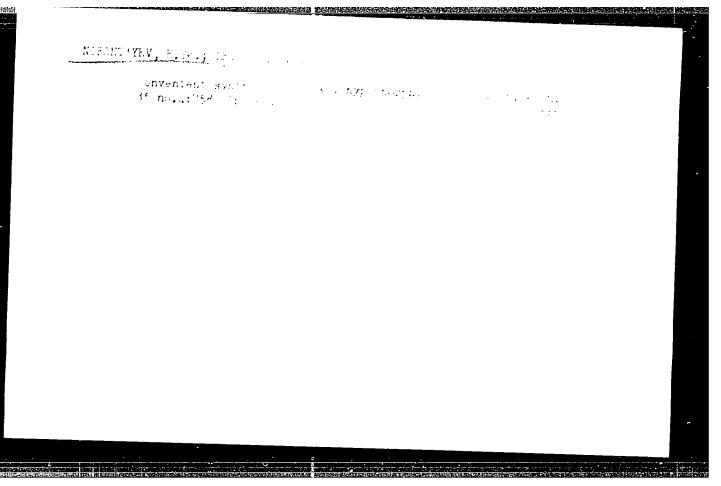
TOPIC TAGS: radiation protection, antiradiation drug, polyphosphamide, polymer

ABSTRACT: Physiologically active synthetic polymers/have recently received increased attention. Among these substances are high-molecular-weight polythiols which serve to prevent radiation sickness. This paper is devoted to phosphorus-containing polymers incorporating 2,2'-diaminodiethyl disulfide, a well-known antiradiation compound. The sim of this work was to obtain antiradiation compounds with prolonged activity. The preparative reaction was the transamidation of tetraethyl-diamides of trivalent-phosphorus acids with 2,2'-diaminodiethyl disulfide. The amides of methylphosphorous and phenylphosphorous acids and the corresponding phosphorylated derivatives of 1,2-5,6-glucofursnose disopropylidene ketal and 1,4-3,6-dianhydromannitol were used as the phosphorus-containing component. The reaction proceeds vigorously at 120-130C with an almost quantitative liberation of Card 1/2

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ethylamine. The linear pol	ymers formed in the course of	the reaction are viscous
is or vitreous solids; the	ir molecular veight ranges fro methylformamide and in chlorof	orm. They are slowly
drolyzed in water with cles	avage of the P-N bond. Treatm	ent with carbon tetra-
and the second s	king of the linear polymers,	apparently by the Arbuzov
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=P0)	$R + CC1_4 + RO-P = \rightarrow = P(O) - CC$	$1_2 - P(0) = .$
oss-linked polymers were a	Lso formed in reactions of 2,2	'-diaminodiethyl disulfide
。 1975年 - 1985年 -	이 경기에 가는 그들은 이 경기를 하면 하는데 그들이 아니라 하는데 그들이 되는데 그를 하는데 그들이 되었다.	ுள்ளிருந்து இருக்கு விடியார். இரு இருக்கு இருக்கு இருக்கு இருக்கு இருக்கு இருக்கு இருக்கு இருக்கு இருக்கு இருக
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the cross-linked polymers	were investigated; the result	mooxidative degradation /2 s are given in tabular [VS]
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the cross-linked polymers	were investigated; the result	s are given in tabular
the cross-linked polymers orm. Orig. art. has: 2 tal	were investigated; the result	s are given in tabular
the cross-linked polymers orm. Orig. art. has: 2 tal SOCIATION: none	were investigated; the result bles.	s are given in tabular [vs]
	cession NR: Ansol6504 ethylemine. The linear polls or vitreous solids; these moderately soluble in directly and action: =P-01 oss-linked polymers were allertices.	cession Nr. A ⁵ 016504 ethylamine. The linear polymers formed in the course of ls or vitreous solids; their molecular weight ranges fro e moderately soluble in dimethylformamide and in chlorof drolyzed in water with cleavage of the P-N bond. Treatm loride results in cross-linking of the linear polymers,

(A) L 886	5-66 ENT (m)/ETC/EN	G(m)/EMP(j)/T/ETC(m)	03/10/0/1667/1669	(000
ACC NR. AP502599	SQURCE	G(m)/EMP(j)/T/ETC(m) CODE: UR/0190/65/0 1. 1.; Nifant'yev, E. 3	49155	5/
ORG: None			6 -allulose	1
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	경기를 가입니다. 1985년 - 1985년	oyedineniya, v.7, no.	10, 1965, 1667-16	69
SOURCE: Vysol	komolekulyarnyye so	yeamenry		
TOPIC TAGS: p	phosphorylation, cel phosphinic acid, io	lulose, cellulose plasti n exchange resin, hea	c, organic phospit t resistant materia	OT CO
ABSTRACT: A phosphinic anhyd	new method of phos irides gave alkyl(ar fire-resistant mate	phorylating cellulose v /l)cellulose phosphona rials /5/Cellulose was	vith alkyl(aryl) tes with potential a reacted with methy cellulose phospho	as /l- nates
or phenylphosph heretofore not d	inic anhydride to 101 escribed in the liter	ature. Products cont	aining a maximum	of c
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ACC NR: AP502595:	us were obtained by w	eaction at 130-140°	using 3-5 mole	1
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NIFANTIYEV, E.Ye.; FURSINGO, ..V.

Alcoholysis of fluoreethyl phosphites and phosphonites.

Zhur. ob. khiz. 35 no.10.1882 0 '65. (MIRA 18:10)

SOURCE CODE: UR/0020/65/164/006/1327/1330 AUTHOR: Nifant'yev, E. Ye.; Fedorov, S. G. ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy) Buniversitet) TITLE: Synthetic application of novolak phosphites SOURCE: AN SSSR. Doklady, v. 164, no. 6, 1965, 1327-1330 TOPIC TAGS: novolak, phosphite, ester, polymer, phosphorus containing polymer ABSTRACT: Preparation of phosphites of novolaks had been described in previous publications. In this work, novolak phosphites were allowed to react with chloral, sulproducts is characterized. True cross-linked, high-molecular weight polyphosphonates POCHA OCHA OCHA OCHA OCHA OCHA OCHA OCHA	/P/EWP(1) RM	
ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy Buriversitet) TITLE: Synthetic application of novolak phosphites SOURCE: AN SSSR. Doklady, v. 164, no. 6, 1965, 1327-1330 TOPIC TAGS: novolak, phosphite, ester, polymer, phosphorus containing polymer ABSTRACT: Preparation of phosphites of novolaks had been described in previous publications. In this work, novolak phosphites were allowed to react with chloral, sulproducts is characterized. True cross-linked, high-molecular weight polyphosphonates O-CHa OCHaCHaJ O-CHA OCHACHAJ O-CHA O-CHACHAJ O-CHACHA	Pedorov, S. G.	
SOURCE: AN SSER. Doklady, v. 164, no. 6, 1965, 1327-1330 TOPIC TAGS: novolak, phosphite, ester, polymer, phosphorus containing polymer ABSTRACT: Preparation of phosphites of novolaks had been described in previous publications. In this work, novolak phosphites were allowed to react with chloral, sulproducts is characterized. True cross-linked, high-molecular weight polyphosphonates were obtained for the first time: O-CH ₆ O-CH	y im. M. V. Lomonosov (Moskovskiy gosudarstvennyy	
SOURCE: AN SSSR. Doklady, v. 164, no. 6, 1965, A327-1330 TOPIC TAGS: novolak, phosphite, ester, polymer, phosphorus containing polymer ABSTRACT: Preparation of phosphites of novolaks had been described in previous publications. In this work, novolak phosphites were allowed to react with chloral, sulproducts is characterized. True cross-linked, high-molecular weight polyphosphonates here obtained for the first time: O-CH ₈ OCH ₆ OCH ₆ O-CH ₈ OCH ₆ OCH ₆ O-CH ₈		
ABSTRACT: Preparation of phosphites of novolaks had been described in previous publications. In this work, novolak phosphites were allowed to react with chloral, sulvivolated; amines, and mercaptans. The general nature of the reactions and products is characterized. True cross-linked, high-molecular-weight polyphosphonates were obtained for the first time: O-CH ₈ O-CH ₉ O-C	v. 164, no. 6. 1965. 4327.1320	
ications. In this work, novolak phosphites were allowed to react with chloral, sulveyl chloride, amines, and mercaptans. The general nature of the reactions and recoducts is characterized. True cross-linked, high-molecular-weight polyphosphonates ere obtained for the first time: O-CH ₆ O	ite, ester polymer shows	
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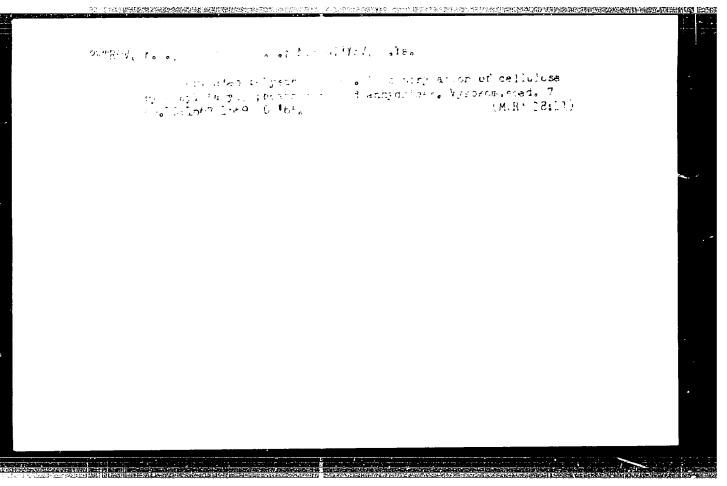
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NIFANTIYEV, E.Ye.; KULAKOV, V.H.

Certain reactions of A ketomercaptals. Znur. crg. vhim. 1
no.11:1955-1959 N '65.

1. Moskovskiy gosidarstvennyy universitet imeni M.V. (omonosov).



PREDVODITELEV, D.A.; TYUGANOVA, M.A.; NIFANT'YEV, E.Ye.; ROGOVIN, Z.A.

Synthesis of phosphorous cellulose esters by reesterification of dimethyl phosphite and their subsequent transformations. Zhur. VKHO 10 no.4:459-461 105. (MIRA 18:11)

l. Moskovskiy tekstilinyy institut.

NIFANT YEV, E.Ye.; SHCHEGOLEV, A.A.

Synthesis and alkylation of dipropyl phosphir'tes of 1,2-5,6-dicyclohexylideneglucose, 1,2-isopropylidene-b,c-dimethyl-glucose, and 3,4-isopropylidene- β -methylarabinosiue. Vast. Mosk. un. Ser. 2:Khim. 20 no.4:80-82 Jl-Ag (65.

1. Kafedre khimicheskoy tekhnologii Moskovskogo gurudaratvennego universiteta.

NIFANT'YEV, E.Ye.; IVANOVA, N.L.

Synthesis and chemical properties of phosphorous acid biamides.
Vest. Mosk. un. Ser. 2: Khim. 20 no.6:82 N-D '65.

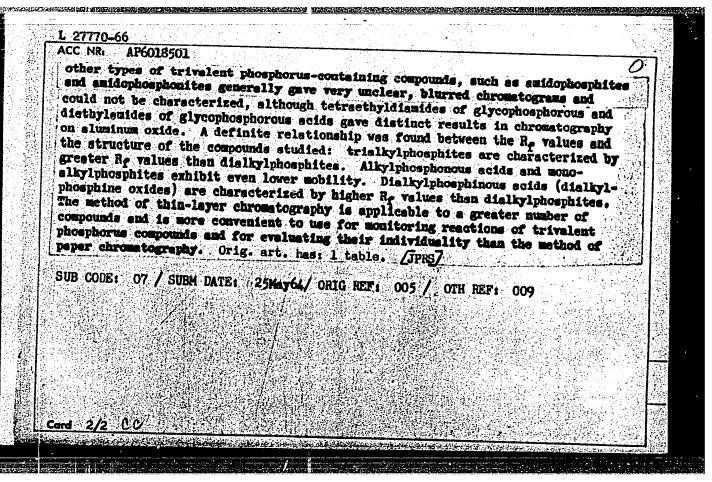
(MIRA 19:1)

1. Kafedra khimicheskoy tekhnologii Moskovskogo universiteta.
Submitted Sapt. 20, 1965.

ACC NR. AP6016658	;
AUTHOR: Nifant'yev, E. Ye.; Fursenko, I. V.	÷ 1
ORG: none	3
TITIE: Alcoholysis of beta-fluoroethyl phosphites and phosphonites. SOURCE: Zhurnal obshchey khimii, v. 35, no. 10, 1965, 1882	
TOPIC TAGS: vacuum distillation, phosphorylation, ester, polyviny phosphorus compound, fluorinated compound, alcohol, fluorehydrin, extension of the compound	l alcohol, organic organic synthetic
ABSTRACT: It has been shown for the first time that variable phosphites and phosphonites can be obtained in high yie alcoholysis of beta-fluoroethyl esters of acids of trivial phosphorus at 20-40°C. The method opens up new horizon synthesis of labile phosphorus-containing compounds. To fluoroethyl ester of 1,3-butylenephosphorous acid and a mount of octanol were maintained for 10 hours at 20°C. If the fluoroethyl ester of 1,3-butylene phosphorous acid and a mount of octanol were maintained for 10 hours at 20°C. If the fluoroethyl esters can be used for the fluoroethyl esters can be used for the phorylation of high-molecular compounds, e.g., polyviny	alent s for the he beta- n equimolar Ethylene d the mix- btained d propylene- d in simi-
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L 27770-66 EMP(1)/EMT(m) UR/0079/65/035/011/1980/1982 AP6018501 ACC NR 36 Mifant'yev, E. Ye. AUTHOR: ONG: none of organic compounds of trivalent phosphorus in a thin TITLE: Chromatography layer of sorbent SOURCE: Zhurnal obshchey khimii, v..35, no. 11, 1965, 1980-1982 TOPIC TAGS: chromatography, organic phosphorus compound, alkylphosphine oxide, aluminum oxide, hydrolysis ABSTRACT: It was demonstrated that the method of thin-layer chromatography can be used to characterize most trivalent phosphorus-containing organic compounds Various neutral and acid phosphites, phosphonites, diphosphonates, alkylphosphorous, and dislkylphosphinous acids were investigated, using chromatography on a thin layer of aluminum oxide, with solvents: aliphatic and aromatic hydrocarbons, chloroform and carbon tetrachloride, as well as nitromethane and dimethylformamide. A specific characteristic of the chromatography of many phosphites and phosphonites was their hydrolysis, leading to blurring of the chromatograms on account of the appearance of decomposition products. Most of the compounds studied gave more distinct chromatograms in the case of determination immediately efter application of the substance to the plate. Certain UDC: 546.183:543.544



ACC NR: AF6016711	Source code: 1	JR/0079/65/035/012/2	256/2256
AUTHOR: Nifant yev, E. Ye.; Sorochk	n, I. N.; Tuseyev, A	P.	30
ORG: none			. 0
TITLE: Synthesis of halo- and cyando phosphonites			3 and
SOURCE: Zhurnal obshchey khimii, v.	35, no. 12, 1965, 225	6	
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ABSTRACT: Halo- and overodeson	s compound, organic s	mide	
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disopropylidenegalactose (192-3.4-disopropylidenegalactose	T Viald) and 6-4	yano-6-desoxy-1.	
did reactions offer new mageth!	lities for menon	ing derivatives	. 10 38
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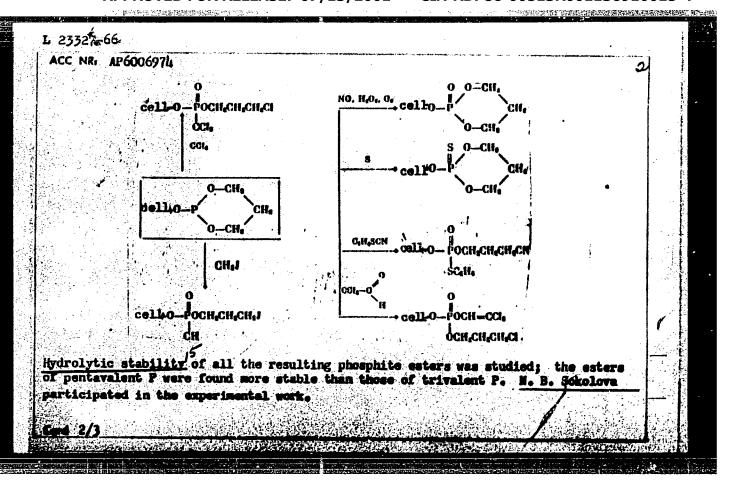
L 31268-66 EWT(m)/EWP(j) RM SOURCE CODE: UR/0079/66/036/002/0319/0321 ACC NR. AP6022804 SOURCE CODE: UR/0079/66/036/002/0319/0321 AUTHOR: Nifant'yev, E. Ye.; Tuseyev, A. P.; Markov, S. M.; Didenko, G. F.	/
ORG: none TITLE: Synthesis of ethyleneamidothiophosphites and -phosphonites SOURCE: Zhurnal obshchey khimii, v. 36, no. 2, 1966, 319-321 TOPIC TAGS: chemical synthesis, organic phosphorus compound, phosphorylation, mercaptan, organic amide, free radical stabilization ABSTRACT: It was found that tetraethyldiamides of acids of trivalent phosphorus react with beta-aminoethylmercaptan to form previously unknown ethyleneamidothiophosphites and -phosphonites. These conversions were the first examples of phosphorylation of aliphatic mercaptides with amidophosphites and amides of phosphonous acids. The synthesized ethyleneamidothiophosphites and -phosphonites are of interest as inhibitors of free-radical reactions, particularly, those developing in living organisms. Orig. art. has: 1 table. [JPRS] SUB CODE: 07 / SUBM DATE: 09Jul64 / ORIG REF: 003 / OTH REF: 002	
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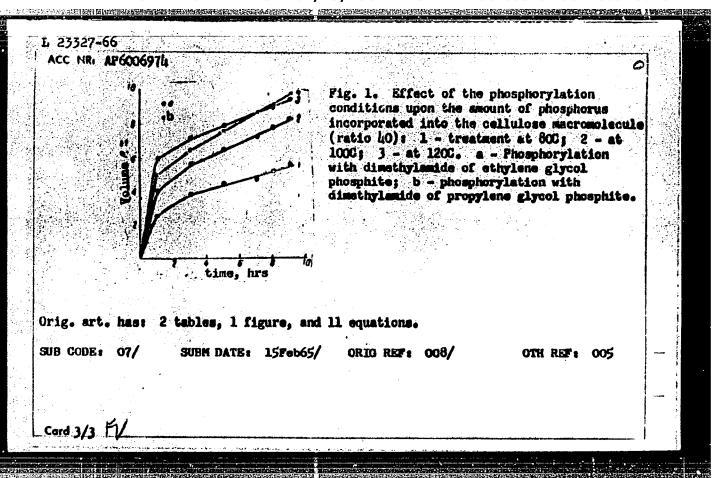
_EWT(m)/EWP(+) SOURCE CODE: UR/0079/66/036/002/0363/0363 31266-66 AP6022806 ACC HRI Nifant'yev, E. Ye.; Gavrilova, A. I.; Bliznyuk, N. K. AUTHOR: ORG: none TITLE: New method of synthesizing ethyleneimides of phosphorus acids SOURCE: Zhurnal obshchey khimii, v. 36, no. 2, 1966, 363 TOPIC TAGS: chemical synthesis, imide, organic phosphorus compound, chemical reaction, esterification, organic imine compound ABSTRACT: Three new methods were developed for synthesizing phosphoethyleneimides. Dialkyl phosphites were found to react with carbon tetrachloride, ethyleneimine, and triethylamine at 0-20 to form ethyleneimides of dialkylphosphorous acids. Both acid phosphonites, tetraalkyldiamides of phosphorous acid, and alkyl hypophosphites take part in the reaction; in the latter case diethyleneimides of alkylphosphoric acids are formed. Ethyleneimide esters of phosphorous acid are produced by alcoholysis of mixed ethyleneimidodialkylamides when amine hydrochlorides are used as catalysts. Ethyleneimines of trivalent phosphorous acids can be produced by reaction of the corresponding dimethylamides with ethyleneimine under considerably milder conditions than under transmination reactions. These reactions are model syntheses and are now being used to produce otherwise difficulty accessible ethyleneimides of phosphorus acids. [JPRS] SUBM DATE: 13May65 SUB CODE: 07 / 547.26'118 + 547.233 UDC:

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AUTHOR		Ale Instit	ute (Koskov	akiy tekstil	'nyy instit	.t)	8 1.14.55	
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AF T AP 18 M	u ullenic fotamic:	TOTAL AT ANY)
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. ert. bas: 2 fig	ures and 3 equation	4.	
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	cliulose with 80% mees of I or in a soon the esount of Preparation of Virides of pentave, art. has: 2 fig	on the amount of P introduced into the Preparation of V required higher to require of pentavalent phosphorus, and rides of pentavalent phosphorus phosphorus, and rides of pentavalent phosphorus phosp	cliulose with 80% acetic acid was required. III was meets of I or in an organic solvent. Effects of time con the amount of P introduced into the cellulose est Preparation of V required higher temperatures due triples of pentavalent phosphorus, and thus gave less ert. has: 2 figures and 3 equations.

L 23327-66 ENT(a)/ENP(j) RM	
ACC NR: AF6006974 (A) SOURCE CODE: UR/0190/66/008/002/0213/021 AUTHORS: Predvoditelev, D. A.; Nifant yev, E. Ye.; Rogovin, Z. A.	8
UNIT Hoscow Textile Institute (Moskovskiy tekstil'nyy institut)	5
[17]: Synthesis and chemical transformations of <u>cellulose alkylene phosphites</u> (192nd report in the series "Study of the structure and properties of cellulose and its derivatives")	
SOUNCE: Viepkomolekilyarnyye soyedineniya, v. 8, no. 2, 1966, 213-218	
TOPIC TAGGE collulate plastic, phosphorylation, organic synthetic process	
ABSTRACT: Synthesis of cellulose alkylene phosphites by phosphorylation of cellulo with amides of propylene glycol phosphites or with ethylene glycol phosphites is described. Effect of the structure of the amides, reaction time, and temperature upon the amount of the phosphorus incorporated into the product was investigated and is illustrated in Fig. 1. Reactions of cellulose propylene phosphite with a variety of reagents and the products obtained are suggested by	S S
Card 1/3 UDC: 66.095.2	6





"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001136910015-4

L 06510-67 EWT(m)/EWP(j) ACC NR: AP7000482 SOURCE CODE: UR/0079/66/036/006/1124/1129 NIFANT'YEV, E. Ye., TUSEYEV, A. P., TARASOV, V. V. "Colamine Glycophosphites and -Phosphonites" Moscow, Zhurnal Obshchey Khimii, Vol 36, No 6, 1966, pp 1124-1129 Abstract: The phosphorylation of colamine and N-methylcolamine by tetraethyldiamides of methyl- and ethylphosphonous acids was studied. The amido-esters obtained were used to phosphorylate carbohydrates: 1,2-3,4-diisopropylidenegalactose, containing a free primary hydroxyl, and 1,2-5,6-diisopropylideneglucose, containing a free secondary hydroxyl group, thereby synthesizing the corresponding colamine glycophosphonites. Colamine glycophosphites were synthesized from diamidoglycophosphites, such as the tetraethyldiamidophosphite of 1,2-5,6-diacetoneglucose, and the colamine derivative, forming cyclic glycoethylenemethylamidophosphites, which reacted with various alcohols to form neutral colamine glycophosphites. The infrared spectra and other properties of the compounds obtained, including a promising Arbuzov reaction, were studied. Orig. art. has: 2 figures and 3 tables. [JPRS: 37,023] TOPIC TAGS: phosphorylation, organic phosphorus compound SUB CODE: 07 / SUBM DATE: 25Feb65 / ORIG REF: 008 / OTH REF: 001 Card 1/1 LS

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- Alexander - Charles L		A CASA
L 8506-66 EWT (m)/EWP(j)/T/ETC ACC MR: AP5028487	SOURCE CODE: UR/0286/65/0	00/020/0065/0066
AUTHORS: Mifant'yev, E. Te.;	Shalayskaya, G. V. W.	37 B
ORG: none		
Class 39, No. 175653 announce	phosphites and phosphonites of polyvi	Logonosov
(Noskovskiy gosudarstvennyy un	iversitet)/	44,55
	y i toyarnykh znakov, no. 20, 1965, 65	
TOPIC TAGS: phosphorus compour acid, phosphinic acid	nd, polyvinyl alcohol, esther, amide,	phosphoric
phosphomites of polyvinyl alcol ity, polyvinyl alcohol is trea	cate presents a method for obtaining p hol. To obtain products with a high t ted with esters or amides of phosphori	herel stabil-
acid while being heated to 100-	*1800*	
SUB CODE: 07/ SUBM DATE: 171	Iov64	
BVK Card 1/1		78.674 : 678.85

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ACC NR. AP6035684 (A,N) SOURCE CODE: UR/0413/66/000/019/0031/0031	
INVENTOR: Nifant'yev, E. Ye.; Komlev, I. V.	
ORG: none	
TITLE: Preparation of hydrogen alkyl phosphates and phosphonates. Class 12, No. 186469 [announced by Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet)]	
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 19, 1966, 31	
TOPIC TAGS: acid alkyl phosphate, acid alkyl phosphonate, ozone, oridizing agent, phosphate ABSTRACT: To simplify the process and to increase the yields in the preparation of hydrogen alkyl phosphates and alkyl phosphonates by treatment of the latter with oxidizers, ozone is used as the oxidizing agent. [W.A. 50]	
SUB CODE: 07/ SUBM DATE: 17Nov64	
Card 1/1 UDC: 547.26.118.07	.1

ACC NR. AP6033455 SOURCE CODE: UR/0413/66/000/018/0039/0	039
ACC NRI AF 0033433	
INVENTOR: Bliznyuk, N. K.; Kvasha, Z. N.; Nifant'yev, E. Ye.; Varshavskiy, S. L.	
ORG: none	
TITLE: Preparation of O-alkyl esters of dialkylphosphinic acids. Class 12, No. 185905 [announced by All-Union Scientific Research	
Institute of Phytopathology (Vsesoyuznyy nauchno-issledovacal'skiy institut fitopatologii)]	;
SOURCE: Izobret prom obraz tov zn, no. 18, 1966, 39	- c
TOPIC TAGS: alkyl dialkylphosphinate, phenylarsenic acid, shosphine	:
ABSTRACT: To obtain biologically active compounds, dialkylphosphin acids are treated with alcohols in the presence of phenylarsenic ac as catalyst. The reaction is carried out with excess alcohol and a	:14
tropic removal of water at 180—220°C. [W.A. 5	[0]
SUB CODE: 07/ SUBM DATE: 15Nov65	
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Cord 1/1 UDC: 547.26'118.07	!

ACC NR: AP6030904

SOURCE CODE: UR/0080/66/039/008/1881/1684

٠-2

AUTHOR: Fedorov, S. G.; Nifant'yev, E. Ye.

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

TITLE: Phosphites and phosphonites of novolak resins

Zhurnal prikladnoy khimii, v. 39, no. 8, 1966, 1881-1884 SOURCE:

novolak resin, phosphorytated novolak resin RESIN PHOSPHOR YKATION CAOSS LINKING TOPIC TAGS:

POLYMIER

ABSTRACT: Previous studies of this series showed that new novolak resin-based polymers with desired properties, including thermostable biologically active polymers, may be prepared by replacing the hydroxyl groups of the novolak resin (I) with various functional groups. Eight previously unreported modified novolak resins were obtained by phosphorylation of the resin with esters and amides of phosphonous and phosphinous acids: methyl methylphosphonite (II), dimethyl phosphite (III), di(chloroethyl) phosphite (IV), and triphenyl phosphite (V). Phosphorylation of I with II, III, IV, and V is carried out in a distillation apparatus by heating the reaction mixture for 2 hr, at 170°C in the presence of Na in an inert gas. The reaction of I with II proceeds as follows:

Card 1/5

UDC: 541.6+546.18

ACC NR: AP6030904

With dialkyl phosphites I reacts differently, depending on its relative amount in the mixture. At low concentration of I, a compound containing mainly fragments of alkylarylphosphosphites are formed:

$$\begin{array}{c}
OH \\
-CH_2-\\
+ (RO)_2POH \\
-ROH
\end{array}$$

When the reaction mixture contains an equal number of alkoxy and hydroxy groups, cross-linked phosphites containing mainly fragments of diarylphosphites, are formed:

_Card _ 2/5_

There were the second of the s

ACC NR:

AP6030904

$$\begin{array}{c}
O II \\
O \longrightarrow P \longrightarrow O \\
-C II_2 \longrightarrow + (RO)_2 POII \longrightarrow O \longrightarrow C II_2 \longrightarrow$$

The phosphorylation products are insoluble in organic solvents and decompose on heating without melting. The reaction of I with V in mixtures containing 3 molecules of phosphite per each OH group of the resin yielded monosubstituted polymers:

$$OH \longrightarrow O-P(OC_0H_0)_{2}$$

$$-CH_2- \longrightarrow CH_2-$$

$$-CH_2-$$

At lower phosphite (V) concentration, cross-linked polymers are formed. The structure of the phosphorylation product was established by methanolysis and separation of the methanolysis products by paper chromatography. Reactivity of the phosphorylating agents in these reactions decreased in the order II>III>IV>V. Phosphorylation of I

Card

3/5

ACC NRI

AP6030904

with amides of 1,3-butylenephosphosphonous acid (hexamethyl amide VI, hexaethyl amide VII, and dimethyl amide VIII) proceeds under milder conditions than with the esters. At 100—130°C in an inert gas with an excess of the amide, the reaction proceeds with complete phosphorylation of the resin:

At low amide concentration, cross-linked polymers are formed. All phosphorylation products are solidified by usual methods, e.g., by heating with urotropine, to form thermostable plastics. They are highly reactive and may be used as starting materials in the preparation of polyphospates, polyesters, and other products. Physical

Card 4/5

ACC NR: AP6030904

constants and reaction conditions under which the phosphorylated novolak resins are formed are given in the table. [WA-50; CBE No. 11]

Phos	Molar re	Reaction *		m.p. of	Specific	Composition P and N in %				
a ting	ratio phosphor ylating	Temper-	<u> — </u>	reaction ordduct	viscosity	Fou	nd	Calcula	ited :	Table 1.
<u>-</u> B	agent: resim (I)		(hæ)	(<u>,e</u> .C)		р	N	P	м	Phosphorylation of novolak resin
(II)	3:1	160—170	3	30—50	0.051	18,55 18,69		18.45	_	
(111)	3:1	170—175	2	95—110	0.083	15.63 15.89	-	16.85	_	
(111)	1:1	170-175	i i 3	 Decomposed	<u> </u>	13.32	-	16.85	-	
(111)	1/2:1	', i	:	above 360	-	10.82	-	12.01	-	1
(IV)	3:1	140—145	4	95—100	0.065	13.22	-	13.33	-	SUB CODE: C7/ SUBM DATE: 2CJul64/
(V)	3:1	170	8	120-150	0.075	9.28	-	9.63	-	ORIG REF: 030/
(VI)	3:1	100-110	0.75	i –	0.032	12.78	11.60	Ļ	12.50	OIN REI . GO)/
(·V11)	3:1	135	1.5	_	0.036	11.37	10.21		10.00	
(VIII)	1.1:1	135—145	3	100—110	0.027	13.27 13.42	-	13.84	_	
] .		i	1	i	l	ı	ı	

* Solution Concentration 0.1 g/10 mls solvent

Card5/5

ACC NRI AP6035831	SOURCE CODE: UR/0413/66/000/020/0037/0037
INVENTOR: Nifant'yev,	E. Ye.; Koroteyev, M. P.
ORG: none	
187018 [announced by Che	alkylphosphonic acid dichlorides Class 12, No. emistry Department, Moscow State University im. neskiy fakul'tet Moskovskogo gosudarstvennogo
SOURCE: Izobreteniya, 1966,37	promyshlennyye obraztsy, tovarnyye znaki, no. 20,
TOPIC TAGS: alkylphosp alkylphosphite, phosphon	hinyl dichloride, phosphorus tedchloride, sodium icacid
buonat dicuto	he method for the preparation of alkylphos- rides with the use of PCl ₃ , sodium alkyl phos- eated with PCl ₃ .
	[WA-50; CBE No. 14]
SUB CODE: C7/ SUBM DATE	2: 05Aug65
Card 1/1	UDC: 547.241-312'113.07

6.4300 (also 1155) 9.3274 (also 1147)

20692 S/120/61/000/001/030/062 E194/E184

AUTHOR:

Nifant'yeva, F.P.

TITLE:

An Ultra-High-Frequency Range Ferrite Phase Shifter

PERIODICAL: Pribory i tekhnika eksperimenta, 1961, No.1, pp.101-102

Ferrite phase shifters are becoming widely used for altering the phase of a signal over a given frequency range. However, most of the work has been done on the development of ferrite phase shifters for the super-high-frequency range. work has been published on a ferrite phase shifter for the decimeter and upper end of the metre range giving a phase displacement from 0 to 360 o and having low losses, but it is complicated The present article describes an and phase control is difficult. ultra-high-frequency phase shifter which can alter the signal phase in the range 0 to 360 °C by altering a longitudinal magnetic field applied to the ferrite from 0 to 250 oe. The phase shifter is of simple construction and comparatively small size; it is illustrated schematically in Fig.1. This diagram shows the construction of a phase shifter in which the length of coaxial line is 60 cm, the internal diameter of the outer conductor is Card 1/3

20692 5/120/61/000/001/030/062 E194/E184

An Ultra-High-Frequency Range Ferrite Phase Shifter

9 cm, the external diameter of the spiral is 7.5 cm, the number of turns of the spiral is 5 turns per cm, the centre core 15 ferrite and the outer hatched cylinder is a dielectric. input and output of the phase shifter are connected to coaxial lines by a plug and socket arrangement. The transformer must be designed to match the coaxial line of 75 ohms and the spiral line. The spiral contains two ferrite rods (ferrite Li20ZnOFe203 grade \$\overline{\Phi}\$-25 (F-25); the electrical characteristics of this material have been published elsewhere. The magnetic field is set up by a coaxial spiral winding on the external cylinder consisting of a two-layer winding of wire grade for -1.25 (PEL-1.25), contained in a water bath. The damping in the line and the phase displacement were measured at a frequency of 150 Mc/s. The line attenuation was determined by measuring the signal voltage at input and output and it includes both losses in the ferrite and reflections from the ends of the lines due to imperfect matching with the coaxial lines. The amount of phase shift was determined from the interference pattern produced on a Card 2/3

20692 S/120/61/000/001/030/062

An Ultra-High-Frequency Range ... E194/E184

detector. As the magnetic field is increased from 0 up to 250 oe the phase shift increases from 0 to $360^{\rm o}$ and the attenuation drops from 12 to 3.2 db. Acknowledgement is expressed to V.N. Detinko for valuable indications.

There are 2 figures and 4 references: Soviet, 1 probably translated from English)

ASSOCIATION: Sibirskiy fiziko-tekhnicheskiy nauchno-issledovatel'-

skiy institut (Siberian Physico-technical Scientific

Research Institute)

SUBMITTED: January 2, 1960

W

Fig. 1

Card 3/3

L 10456-66 ENT(d)/FSS-2

ACC NR. AR 5027553

SOURCE CODE: UR/02/4/65/000/008/A010/A010

SCURCE: Ref. sh. Radiotekinika i elektrosvyas!, Abe. 8475

AUTHOR: Elfantipove, E. P. | Tefrenove, L. G.

TITLE: Decimeter-band multichannel device

CITED SOURCE: Dokl. Mauchno-tekhn. konferentsii, posvyashch. dnyu radio. Tousk, Touskiy un-t, 1964, 98-107

TOPIC TAGS: electric filter, decimeter band filter

TRANSLATION; A set of filters intended for connecting to a common channel for the purpose of dividing or sixing signals is considered; the set covers a certain waveband. The set contains a power divider and directional filters after which band filters are connected to improve frequency-response skirt. The device designed according to this system contains 21 channels with a 25 passband which overlaps the adjacent-channel characteristics at a level of 25 db within 1% of the central

frequency [Translator's note: the Russian original is not clear]. The passband loss is 12 db or less. Calculation and design of the filters and divider (T-junction or hybrid ring) are given. Estimated results agree with experimental data. The device ensures independent operation of channels. Bib 5, figs 8.

SUB CODE: 09

IDC: 621.372.54

PSHONIK, A.T., prof.; NIFANT'YEVA, L.D.

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Changes in the higher nervous activity in circumscribed neurodermatitis. Vest. derm. 1 ven. 38 no.4:3-9 Ap '64.

(MIRA 18:4)

SECTION PRODUCTION OF THE PRODUCT OF

l. Kafedra normal'noy fiziologii (zav. - prof. A.T.Pshonik) Krasnoyarskogo meditsinskogo "nstituta.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001136910015-4

5.3600

77333 807/73-30-1-5-778

AUTHORS:

Kochetkov, N. K., Nifant'yev, E. Ye., Nifant'yeva, L. V.

TITLE:

R -Chlorovinyl Ketones of the Heterocyclic Sectes

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol 30, Nr 1, pp 241-

245 (USSR)

ABSTRACT:

Synthesis of some β -chlorovinyl ketones, containing a five-membered heterocyclic radical, by the condensation of

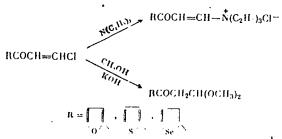
the corresponding acid chlorides with acetylene, was studied. It was found that acid chlorides of furan-zcarboxylic, thiophene-2-carboxylic, and selenophene-2carboxylic acids easily condense with acetylene to form corresponding β -chlorovinyl ketones:

RCOCI + CH≡CH AICI RCOCII=CHCI

Card 1/4

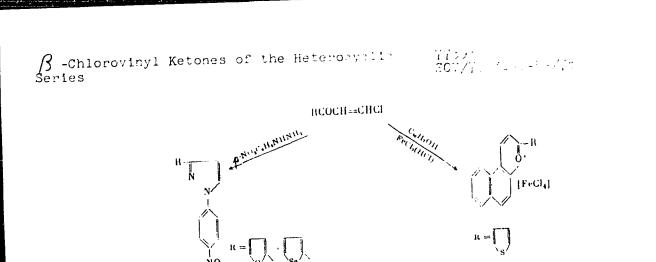
是是一个人,我们是自己的主题的,不是是是对大家的人的,我们就是不是的人的人,我们就是不是一个人的人,我们就是一个人的人的人,也是是一个人的人的人,也是一个人的人

The reaction takes place at $30\text{-}40^\circ$. The heterocyclic β -chlorovinyl ketones, like other vinyl ketones, react with alcohol in the presence of alkalis to form β -keto-acetals:



They also readily condense with p-NO₂C₆H₄NHNH₂ to form corresponding pyrazole derivatives. This envious condenses with β -naphthol in the presence of ferric chloride and HC1.

Card 2/4



Preparation of the following compounds is given: Furyl-(2)- β -chlorovinyl ketone (41%, basel or action chloride), bp 102-105 (10 mm). Thienyl-(2)- β -chlorovinyl ketone (65%), bp 154-156.5 (23 mm). Selenyl-(2)- β -chlorovinyl ketone (45%), bp 132-135 (7 mm).

Card 3/4

 \mathcal{G} -Chlorovinyl Ketones of the Heterocyclic 77393 Series 507/79-30-1-5-/73

Dimethyl acetal of furoyl-(2)-acetaldenyle (6-%), ap 122-123 (10 mm), n_D^{20} 1.49)8, 42^{20} 1.1600. Dimethyl acetyl of thiencyl-(2)-acetaldenyle (5-%), ap 1.7-143° (8 mm), n_D^{20} 1.51+6, 4_{-}^{20} 1.1910. 7-Furyl-(-')-1-(p-nitrophenyl)-pyrazole (62%), mp 70.5-7.°. 7-Selenyl-(2')-1-(p-nitrophenyl)-pyrazole (63%), mo 100-101°. 2-Thienyl-(2')-napthyl-(1,2:5,0)-pyrylium ferrichloride (66%), mp 176-177°. There are 11 Soviet references.

references.

ASSOCIATION: Moscow State University (Moskovskiy gosudarstvennyy

universitet)

SUBMITTED: September 30, 1958

Card 4/4

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ACC NA. AP7003104	a)/3W1(j) 10:	.100k0%	5/000/003/0465/0466	
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_ Mossow (Vsesomizny) = Paulichity rasterdy)	nauchno-isslesovatel's	kiy institut khimicheskika) predu tv	•
TOPIO TAGE: organi Apprilian: During was publicationalities, whice yenconsities an phonylphosphonic ac reaction proceeds u heterocyclic compou	te synthatic process, particle investigation of phospital interactions of 4-raid 3-mothyl-4-thiocyanomid dichlorides were studied are formed for examples are formed for examples.	iled; it was shown that the emperature the correspondi- ple:	, ,	
0 0 0 0 1	12 + 12N-06H ₄ Pyridina	Control of the contro		-
	e e e e e e e e e e e e e e e e e e e	C4.702 4.75	-	_
Card 1/2	UDC:	546.18 + 547 + 711 + 543. C 9 =	.L22 20 259	

L 10303-67 ACC NR: A27003104

The structure of the compounds obtained emanates from the data of the experimental analysis, molecular weight and infrared spectra. The absence of bands in the infrared spectra, which characterize the NH-fragments, indicates the formation of the cyclic phosphorus-containing substances and not the diamilines of phosphonic acids. It should be noted that in the process of the reaction the thiocyane group is not lost since there is a 2160 cm⁻¹⁰ band in the infrared spectrum.

Six p-thiocyanoaryldioxophosphozanes with the molecular structure that follows were characterized:

R 2 2 -R

where $R = CH_3$ and $Ar = C_6H_6SCN_p$, $C_6H_3(CH)$ SCN_3 , 4 or $C_6H_3(CH_3)SCN_3$.4.

Orig. art. has: 1 table. [JPRS: 38,967]

TOPIC UKCS: organic synthetic process, phosphorylation, IR spectrum, phosphoric acid

SUB CODE: 07 / SUBM DATE: 28Jun65 / ORIG REF: 002 / OTH REF: 002

KUZNETSOV, A.V.; NIFASHEVA, I.F.; GAVRILOVA, L.A.: DANILOVA, V.M.

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Frontal sections in the Arctic Basin and their relationship with the types of synoptic processes. Trudy AANII 255:192-212 463. (MIRA 17:6)

-L-15260-65 EWT(1)/FCC GW ACCESSION NR: AT4048801

S/3116/63/255/000/0192/0212

AUTHOR: Kuznetsov, A. V.; Nifasheya, I. F.

TITLE: Frontal discontinuities in the arctic basin and their relationship to types of synoptic processes

SOURCE: Leningrad, Arkticheskly i antarkticheskly nauchno-issledovatel'skly institut. Trudy*, v. 255, 1963. Sbornik statey po voprosam dolgosrochny*kh prognozov pogody* dlya Arktiki (Collection of articles on the problems of long-range weather forecasting for the Arctic), 192-212

TOPIC TAGS: long-range weather forecasting, Arctic discontinuity, atmospheric front, troposphere, tropopause, short-range weather forecasting

ABSTRACT: A study was made of the characteristics of fronts entering the central arctic region or forming there. The analysis involved 235 fronts observed in January and July from 1954 to 1960. The fronts were selected from daily surface synoptic charts of Eurasia and AT500 and AT500 pressure pattern charts; radiosonde data also were used to this analysis. The arctic basin was divided into two parts, castarn and maar-polar, and the analysis made separately for each.

Card 1/3

L 15260-65

ACCESSION NR: AT4048801

It was found that in the central arctic regions fronts are observed in both winter and summer. In most cases they extend to great heights and can be traced throughout the troposphere as far aloft as the tropopause. In summer the height of fronts is approximately identical in both regions. In winter high-level principal fronts have a maximum frequency over the eastern region and occluded fronts are most common over the nearpolar region. In winter the arrival of fronts in the near-polar region is more common than in the eastern region. In summer, on the other hand, the arrival of fronts is more common in the eastern region than in the near-polar region. In both regions of the central part of the arctic basin in winter the frequency of principal fronts and occluded fronts is approximately equal. Occluded fronts predominate in summer. In summer fronts arrive in the eastern region for the most part when there is an E form of circulation; fronts arrive in the near-polar region when there are either C or E forms, but with some predominance during a C form. Fronts are observed in winter in both regions primarily when there is an E form of circulation and more rarely when there is W circulation. In summer the greatest frequency of fronts is observed when there are processes of groups E, D and C, but in winter with processes of groups A, B, D and E. The rate of movement of warm fronts is greater than that of cold fronts and in the near-polar region is greater than in the eastern region (in both summer and winter), but for the most

Card 2/3

L 15260-65

ACCESSION NR: AT4048801

part the mean rate of movement of fronts is close to their mean rate of movement in the temperate latitudes. The results of investigation of synoptic conditions of the passage of cold fronts and information on aerological structure reported in this article can be used either in short-range or 3-day weather forecasting. Orig. art. has: 7 figures and 15 tables.

ASSOCIATION: Arkticheskly i Antarkticheskly nauchno-issledovatel'skly institut, Leningrad (Arctic and Antarctic Scientific Research Institute)

SUBMITTED: 00

ENCL: 00

SUB CODE: ES

NO REF SOV: 011

OTHER: 000

Card 3/3

28 244

S/581/61/000/000/015/020 D299/D304

27 1220

AUTHORS: Lemberg, V.K., Bukhtoyarova, Z.M. and Nifatov, A.P.

TITLE: The distribution of plutonium in the liver according to the results of histoautoradiography

SOURCE: Lebedinskiy, A.V and Moskalev, Yu.I., eds. Biologicheskoye deystviye radiatsii i voprosy raspredeleniya radioaktivnykh izotopov; sbornik rabot. Moscow, Gosatomizdat,

1961, 136-144

APPROVED FOR RELEASE: 07/13/2001

TEXT: Due to the absence of suitable published data on the subject, the authors set out to study the course of the micro-distribution of plutonium-239 in the liver and bones by the histoautoradiographic method, i.e., by studying histological slides fixed on a photographic emulsion. The tests were run on white rats, plutonium-239 being introduced intraabdominally as $Pu(NO_3)_4$ in a single dose of $7\mu c/kg$ at pH = 2. After 6 and 12 hours, and 1. 3. 7. 14. 28, 41, 56, 88 and 225 days the rats were decapitated and slides of the

Card 1/3

CIA-RDP86-00513R001136910015-4"

2⁸2山 S/581/61/000/000/015/020 U299/U304

The distribution of plutonium.

A detailed analysis of the photos bone and liver tissues prepared showing the tracks of plutonium alpha-particles at various stages after the introduction of plutonium-239 is given and the results or the experiments are compared with various findings in the specialized literature on this subject. The histoautocardiograms showed a definite redistribution of plutonium in the structural elements of the bones and liver. Within 6-12 hours after its introduction diffuse distribution of plutonium in all structural parts of the liver is noted. Subsequently, from 1-225 days, the plutonium content in the hepatic cells decreases and begins to accumulate in the Kupffer's cells and the macrophages of the perivascular connective tissue. Six to 12 hours after its introduction the bones contain only a small amount of diffusely distributed plutonium (bone marrow. By the end of the 3rd day a marked compact substance and diplow) increase was noted in the plutonium content of the bone marrow at subsequent stages the plutonium content in the bone marrow gradually diminished, but increased in the endosteum and periosteum plutonium however was retained in the compact bone inroughout the

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THE THEORY OF THE PROPERTY OF

The distribution of plutonium...

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whole period of the investigation. There are 6 figures and 17 references: 6 Soviet-bloc and 11 non-Soviet-bloc. The 4 most recent references to English-language publications read as follows: J.S. Arnold cited by L.F. Lamerton 'Proceedings of the Second United Nations International Conference of the Peaceful Uses of Atomic Energy", vol. 22, p. 119. Geneva, 1958; M.P. Finkel, Proceedings of the Society for Experimental Biology and Medicine, 83, 3, 494 (1953); M. Heller, Ch. 5 - "Bones" in the book by W. Bloom. Histopathology of Irradiation from External and Internal Sources, 70-161. N.Y. - Tor. - Lnd., 1948; R.J. Schubert, M. Finkel, M. White a. G. Hirsch, J. Biolog. Chem., 182, 2, 635 (1950).

Card 3/3

27 1220

27245 S/581/61/000/000/016/020 D299/D304

AUTHOR:

Nifatov, A.P.

TITLE:

The course of morphological lesions of the liver in rab-

SOURCE:

Lebedinskiy, A.V. and Moskalev, Yu.I., eds. Biologicheskoye deystviye radiatsii i voprosy raspredeleniya radioaktivnykh izotopov; sbornik rabot. Moscow, Gosatomizdat, 1961, 145-154

TEXT: The author's previous observations showed that dystrophic and regenerative processes occur in the liver of rats affected by plutonyl sodiotriacetate. Some rats develop cirrhosis and tumors of the liver. These studies, however, related mainly to morphological lesions at remote dates in animals which had died. The aim of the present work was to study the course of morphological lesions of the liver in rabbits affected by plutonium nitrate. The plutonium nitrate solution was injected intravenously in doses of 21, 14,

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The course of morphological lesions... 20245 S/581/61/000/000/016/020 D299/D304

7 and 2 μ c/kg. Some rabbits were killed off after 2 weeks, 1, 5, 4, 5, 6, 9 and 12 months. The rest were spared to study their survival rate and the remote effects of the isotope. A detailed description of the liver lesions (as viewed under the microscope) at various stages is given. At remote stages the plutonium induced marked structural hepatic lesions of the annular cirrhosis type. The morphological lesions had a definite sequence of development and were directly proportional to the total dose of ionizing radiation. Doses of 21 and 14 μ c/kg induced cirrhosis of the liver in 77.5% of the animals within 3-6 months; a dose of $2 \mu c/kg$ induced cirrhosis in 23% of the animals by the 9th month. With a dose of $2 \mu c/kg$ most rabbits showed symptoms of restoration by the 9th month. Some of these animals developed regenerative hepatomata and adenomata of the common bile duct. There are 4 figures, 1 table and 12 references: 10 Soviet-bloc and 2 non-Soviet-bloc. The references to the English-language publications read as follows: C L. Prosser and oth, Radiology, 49, 299 (1947); R.P. Rhades, Ch. 11 -

Card 2/3

The course of morphological lesions... $\begin{array}{c} 28245 \\ \text{S}/581/61/000/000/016/020 \\ \text{D299/D304} \end{array}$

"Structures accessory to the Gastrointestinal Tract" in the book by W. Bloom. Histopathology of Irradiation from External and Internal Sources, 541-549, N.Y. - Tor. - Lnd., 1948.

Card 3/3

27.1220

26 246 S/581/61/000/000/019/020 D299/D304

K

AUTHOR:

Nifatov, A.P.

《CALICE SEALS IN SERVICE S

TITLE:

The remote consequences of intraabdominal injection of plutonium acetate

SOURCE:

Lebedinskiy, A.V. and Moskalev, Yu.I., eds. Biologicheskoye deystviye radiatsii i voprosy raspredeleniya radioaktivnykh izotopov; sbornik rabot. Moscow, Gosatomizdat, 1961, 174-181

TEXT: A study was made of the remote consequences of plutonium acetate injected intraabdominally in white rats in doses of: group I - 21.5, group II - 11.5, group III - 6.3, group IV - 3.3 and group V - 1.6 μ c/kg. Some rats were killed off after 1 and 2 weeks and 1, 3, 6 and 12 months. The pathoanatomical lesions in the organs of these and of 99 rats that died were studied. Data on the life spans was processed statistically. The death of most of the group I rats was due to aplasia of the hemopoletic tissue and the

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The remote consequences...

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appearance of inflammatory lesions in the lungs and gastrointestinal tract. Only one tumor was found in this group. Aplasia and inflammatory lesions were noted in the other 4 groups, but to a lesser extent. Groups II-V most often developed tumors of the bone and hemopoietic tissues, gastrointestinal tract, liver and mammary glands. Group V contained most animals with multiple tumors. The rate of carcinogenesis increased with a decrease in the plutonium dose. This conformed with the findings of Z.M. Bukhtoyarova and V.K. Lemberg (Ref. 3: Vopr. onkologii, 5, 8, 140 (1959)) who noted the greatest number of rats with tumors (54 and 40%) after the injection of plutonium acetate in doses of 1.89 and $4.0 \,\mu\,c/kg$. The most common tumor with plutonium acetate is ostcosarcoma. Usteosarcomata were primarily localized in the long tubular bones and more rarely in the skull, vertebrae and ribs. The largest percentage of osteosarcomata was noted at a dose of 3.3 μ c/kg. Some rats killed off after 6 and 12 months showed pathological osteogenesis in the metaphysics and diaphysis of the long tubular bones. Simi-

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28248 S/581/61/000/000/019/020 D299/D304

The remote consequences...

lar lesions have been observed by other authors and from the action of plutonium nitrate. A combination of dystrophic lesions and symptoms of atypical regeneration was noted relatively frequently in the liver of the test animals: discomplexation of the hepatic beams, the appearance of hepatic cells of various size and shape with two and three nuclei, a large number of mitotically and amitotically dividing cells. Comparison showed that the number of carcinogenic processes in the hemopoietic tissue is greater from plutonium acetate than from plutonium nitrate. The optimum blastomogenic doses of plutonium acetate are 1.6 and 3.3 µc/kg. There are 4 tables and 18 references: 13 Soviet-bloc and 5 non-Soviet-bloc. The references to the English-language publications read as follows: M.P. Finkel, Proc. Soc. Experim. Biol, and Med., 83, 3, 494 (1953); J.I. Hamilton, Radiology, 49, 3, 325 (1947); L.F. Lamerton, Proceedings of the Second United Nations International Conference of the Peaceful Uses of Atomic Energy, vol. 22, p. 119, 1958, Geneva; H. Lisco, P.M. Finkel, A.M. Brues, Radiology, 49, 3, 361 (1947).

Card 3/3

44062

8/742/62/000/000/004/021 1015/1215

27 1220

Lemberg, V.K., Nifatov, A.P.

TITLE:

AUTHORS:

The microdistribution of plutonium in the liver of

rabbits and rats

URCE:

Plutoniy-239; raspredeleniye, biologicheskoye deystviye, uskoreniyo vyvedeniya. Ed. by A.V. Lebedinskiy and Yu.I. Moskalev. Moscow, Medgiz,

1962, 23-31

The detailed microdistribution of this element in the liver has not yet been clarified. Experiments were carried out on 48 rabbits and 44 albino rats. The former received a single dose of 7 Mu/kg b.w. of plutonium nitrate (pH = 2.0) intravenously and the latter were given the same dose i.p. In addition, a single dose of

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The microdistribution of plutonium...

3µ(u/kg b.w. of sodium plutonyl-triacetate (pH = 6.5) was injected i.p. to 12 albino rats. The rabbits were sacrificed by air embolism 1,3,7,14,30,90,135 and 180 days after the injection. Nine rabbits died during that period of time. The rats were decapitated 6 and 12 hours, and 1,3,7,14,30,45,60,90 and 210 days after the injection. The rats which received the complex salt of plutonium were sacrificed 14, 30, 90 and 365 days after the injection. The liver was fixed in 10% formalin solution, enbedded in celloidin-paraffin and cut into sections 5 ¼ thick. Autoradiographs were prepared according to the method of Ye.V. Erleksova and Evans. Exposure time: 4-8 weeks in a refrigerator. Staining with Weigert's hematoxylin. It was found that Pu was accumulated mainly in the reticulo-endothelial system elements of the liver. The complex salt of plutonium was distributed relatively evenly in all the liver tissue elements and was present in lesser

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The microdistribution of Autonium...

amounts than the other plutonium compounds. There was a difference in the dynamics of the microdistribution of plutonium nitrate between the rate and the rabbits: it was diffusely distributed luring 6-12 hours after the injection in the rate and subsequently accumulated in Europeared in high concentration in the RES elements of the liver already 1 day after the injection. There are 9 figures.

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8/742/62/000/000/018/021 I015/I215

AUTHOR:

Nifatov, A.P.

TITLE:

Morphologic changes in the liver of rabbits and rate

following the administration of plutonium-239

SOURCE:

Plutoniy-239; raspredeleniye, biologicheskoye deystviye, uskoreniye vyvedeniya. Ed. by A.V. Lebedinskiy and Yu.I. Moskalev. Moscow, Medgiz,

1962, 129-141

TEXT: There are relatively only a few data in the medical literature about the morphologic changes in the liver in cases of Pu injuries. Experiments were carried out on rabbits and rats. The rabbits received a single dose of 21,14,7 and $2\mu\omega/kg$ b.w. of Pu nitrate (pH = 2.0) i.v. The rats received a single dose of $7\mu\omega/kg$ b.w. of Pu nitrate i.p. The complex sodium plutonyltria cetate (pH = ...

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Morphologic changes in the liver...

6.5) was also injected to rats i.p. in a single dose of 6.3 \(\alpha \) \(\lambda \) \(\lambda \) w. The rabbits were sacrificed 1,3,7,14 days and 1,3,4\frac{1}{2},6,9 and 12 months after the injection. The rats were sacrificed 6 and 12 hours 1,3,7,14 days and 1,1\frac{1}{2},2,3 and 7 months after the injection. The livers of the sacrificed animals as well as of those which died were fixed in 10% formalin and Zenker's formol solutions and embedded in celloidin-paraffin. The sections were stained with hematoxylineosin, with azan for connective tissue, by Pearl's method for the detection of iron and with Sudan-3 (frozen sections) for lipids. The morphologic changes in the liver of the affected animals followed a certain pattern which depended upon the physico-chemical state of the isotope, the dose and the species of the animals. In the rabbits liver cirrhosis developed within 3-6 months after doses of 21, 14 and 7 \(\alpha \lambda \) \(\lambda \) Pu nitrate and within 9 months after a dose of 2 \(\alpha \lambda \). In

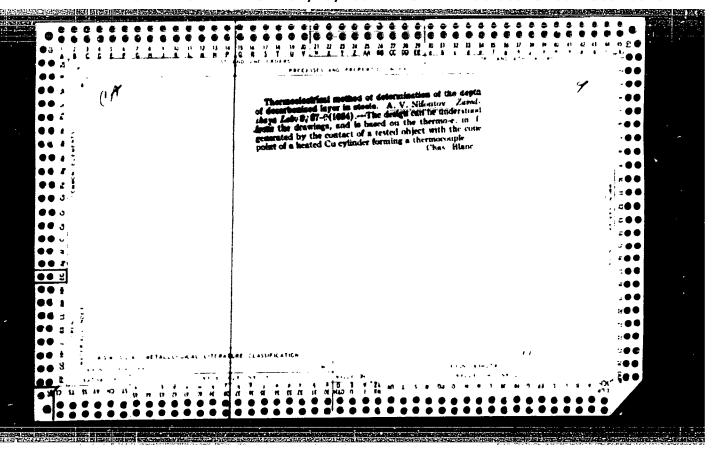
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Morphologic changes in the liver...

the latter hepatomas and bile duct adenomas were present on the 9th month. In rats, on the other hand, a dose of 7 mu/kg of Pu nitrate produced less marked changes resulting in only slight rearrangment in the liver morphology. The complex salt of Pu caused still less changes in rats than Pu nitrate. There are 4 figures and 5 tables.

Card 3/3



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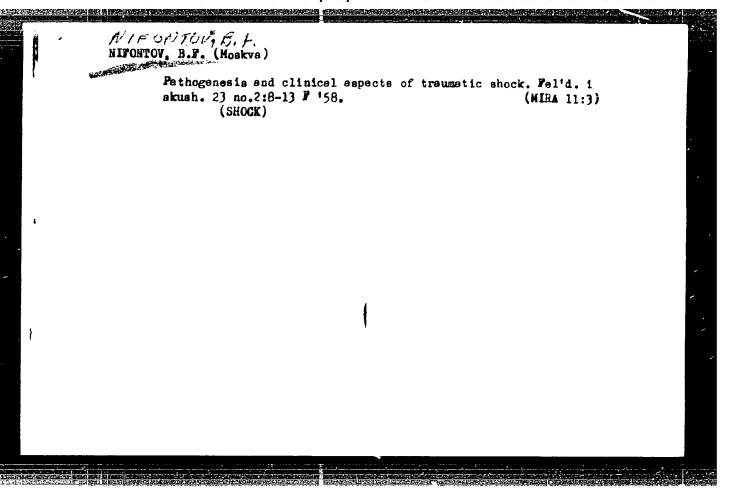
- 1. NIFONTOV, A. V.
- 2. USSR (600)
- 4. Bearings (Machinery) Testing
- 7. Certain forms od deposits of magnetic powder on bearing rings. Podshipnik no. 9, 1952

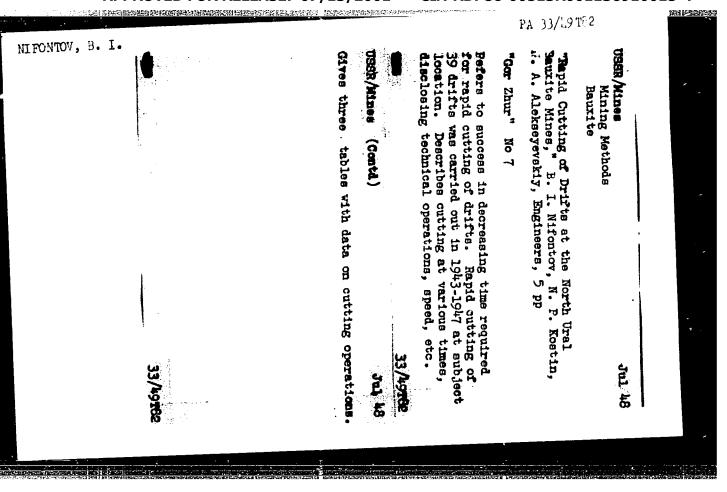
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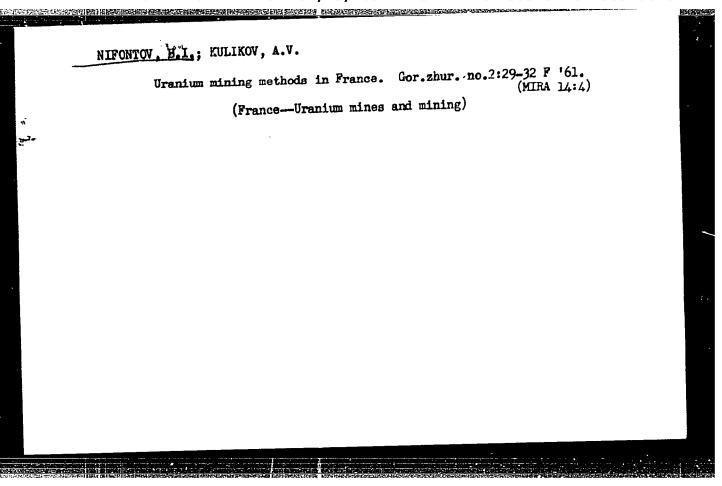
9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

- 1. NIFONTOV, A. V., Engr.
- 2. USSR (600)
- 4. Steel-Heat Treatment
- 7. Dependence of the qualities of El 161 steel on the heat treatment method. Podshipnik No. 11, 1952

9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.







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[Rapid drifting]Skorostnoe provedenie gorizontal'nykh vyrabotok.
Moskva, Gosgortekhizdat, 1962. 282 p. (MIRA 15:12)

(Mining engineering)

MIFONTOV, B.I., doktor tekhn.nauk; RCMADIN, N.M., gornyy inzh.;

SHISHCHITS, I.Ya., gornyy inzh.

Study of the relation between the net drilling rate and the depth of boreholes. Gor. zhur. no. 12:52-53 D '61.

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NIFONTOV, R.I.; PROTOPOPOV, D.D.; SITNIKOV, I.Ye.; KULIKOV, A.V.; MEL'NIKOVA, A.I., red.

[Underground nuclear explosions; problems affecting industrial nuclear explosions] Podzemnye iadernye vzryvy; problemy promyshlennykh iadernykh vzryvov. Moskva, Atomizdat, 1965. 159 p. (MIRA 18:6)

ACC NR: AM6035814

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Monograph

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Nifontov, Boris Ivanovich; Kireyev, Vasily Vasil'yevich, Kisilevich, Yevgeniy Mefodiyevich; Vol'ftrub, Iosif Arturovich; Sadkovich, Yan Fedorovich; Golomolzin, Arkadiy Ivanovich; Petrenko, Andrey Afans'yevich

Construction of underground structures (Stroitel'stvo podzemnykh sooruzheniy)
Moscow. Izd-vo "Nedra", 1966. 293 p. illus., biblio. 2450 copies printed.

TOPIC TAGS: Construction, mining engineering

PURPOSE AND COVERAGE: This book is intended for engineering and technical workers of construction, scientific-research, and design organizations studying the problems of building underground installations; it can also be used by workers of mine-construction organizations. In the book are discussed the basic problems of conducting mining operations during the construction of underground installations. There are 97 references, 72 of which are Soviet.

TABLE OF CONTENTS [abridged]

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ACC NRI AT7004465

SOURCE CODE: UR/2834/66/051/001/0078/0084

AUTHORS: Borisov, A. A.; Nifontov, B. I.; Romadin, N. K.

ORG: none

TITLE: Computing the stresses in pillars between rooms in mines

SOURCE: Leningrad. Gornyy institut. Zapiski, v. 51, no. 1, 1966, 78-84

TOPIC TAGS: mining engineering, stress distribution, underground facility

ABSTRACT: Present methods of computing characteristics and requirements of pillars between rooms in mines and other underground workings involve two-dimensional solutions, not three-dimensional, as the latter introduce distortions and can be used only in restricted circumstances. None of the two-dimensional solutions can determine either the value or the nature of stress distribution in pillars. Actual solutions of the three-dimensional problem have been approached only in recent years. The authors review the basic contributions of A. S. Kalmanok, Ye. S. Kononenko, and M. M. Filonenko-Borodich, and, starting from these, they assign first-approximation values to the stress tensors along the three principal coordinate axes. These expressions involve normal and tangential stresses, relations of height, width, and breadth (of the pillar), modulus of elasticity, Poisson's ratio, and compression of the pillar. From these expressions equations are derived, the solutions of which provide a general solution

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UDC: 622.838.53

ACC NR. AT7004465

to the problem, permitting examination of the stress state in pillars having any relations of height, width, and breadth. The results are very satisfactory, comparing well with experimental data and actually observed conditions. Three-dimensional models of optically active material are not adequate to show distribution of stresses along the pillar. Orig. art. has: 5 figures, 1 table, and 6 formulas.

SUB CODE: 08/ SUBM DATE: none/ ORIG REF: 004

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NIFONTOV, B.N., inzh.

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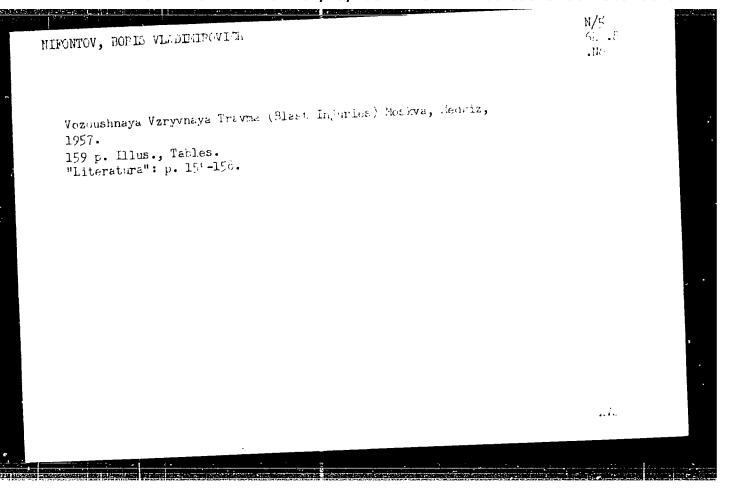
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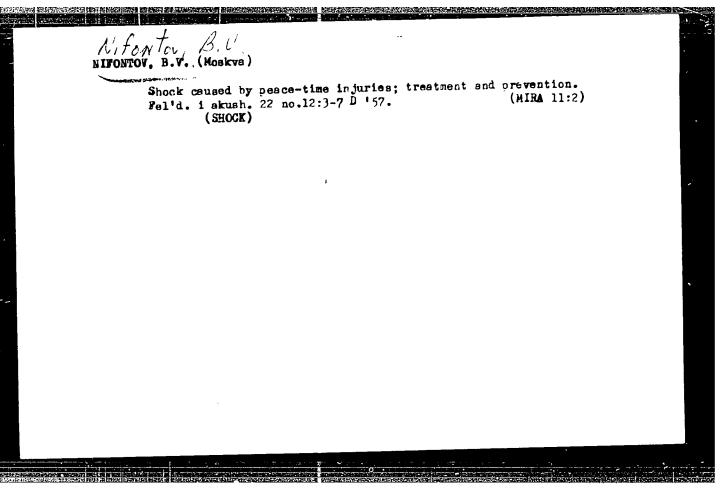
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SO: Vechernyaya Moskva, Jun, 19h7 (Project #17836)

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NIFONTOV, B.V. (Moskva) doktor meditsinskikh nauk zasluzhennyy vrach
RSFSR

Froblems in the clinical treatment of traumatic shock. Khirurgiia
35 no. 5:24-31 My '59.

(SHOCK)

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Prophylactic principle and therapy of traunatic shock in peacetime [with summary in English]. Klin.med. 37 no.1:44-54 Ja '59.

(SHOCK
traum., prev. & ther. (Rus))

(WOUNDS AND INJURIES, compl.
shock, prev. & ther. (Rus))
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